Acta Zootaxonomica Sinica, 31 (2): 321 - 323 (Apr., 2006) ISSN 1000-0739
动物分类学报

福建弯螺属一新种记述 (肺螺亚纲, 柄眼目, 扭轴蜗牛科)

周卫川[1] 陈德牛[2] 郭云海[3]
1. 福建出入境检验检疫局 福州 350001
2. 中国科学院动物研究所 北京 100080
3. 贵州师范大学生物科学技术系 贵阳 550001

摘 要 记述了中国弯螺属 1 新种, 即福州弯螺 *Sinoennea fuzhuouensis* sp. nov.。弯螺属的种类主要分布于东亚和南亚地区, 对新种的形态特征进行了详细描述, 并与近似种进行了比较和讨论。

关键词 肺螺亚纲, 柄眼目, 扭轴蜗牛科, 弯螺属, 新种.
中图分类号 Q959.212

扭轴蜗牛科 Streptaxidae 弯螺属 *Sinoennea* 系 1904 年由 Kobelt 建立, 其属的特征为: 贝壳小型, 呈卵圆形—圆柱形, 壳口上常具有 1 短粗的角板和 2～4 枚齿。齿舌狭窄。主要分布于东亚和南亚和我国长江流域以南地区。作者对中国弯螺属的种类进行了系统整理和研究, 并于 2005 年 8 月在福建省福州市森林公园采得此属标本, 经鉴定发现 1 新种, 即福州弯螺 *Sinoennea fuzhouensis* sp. nov.。模式模

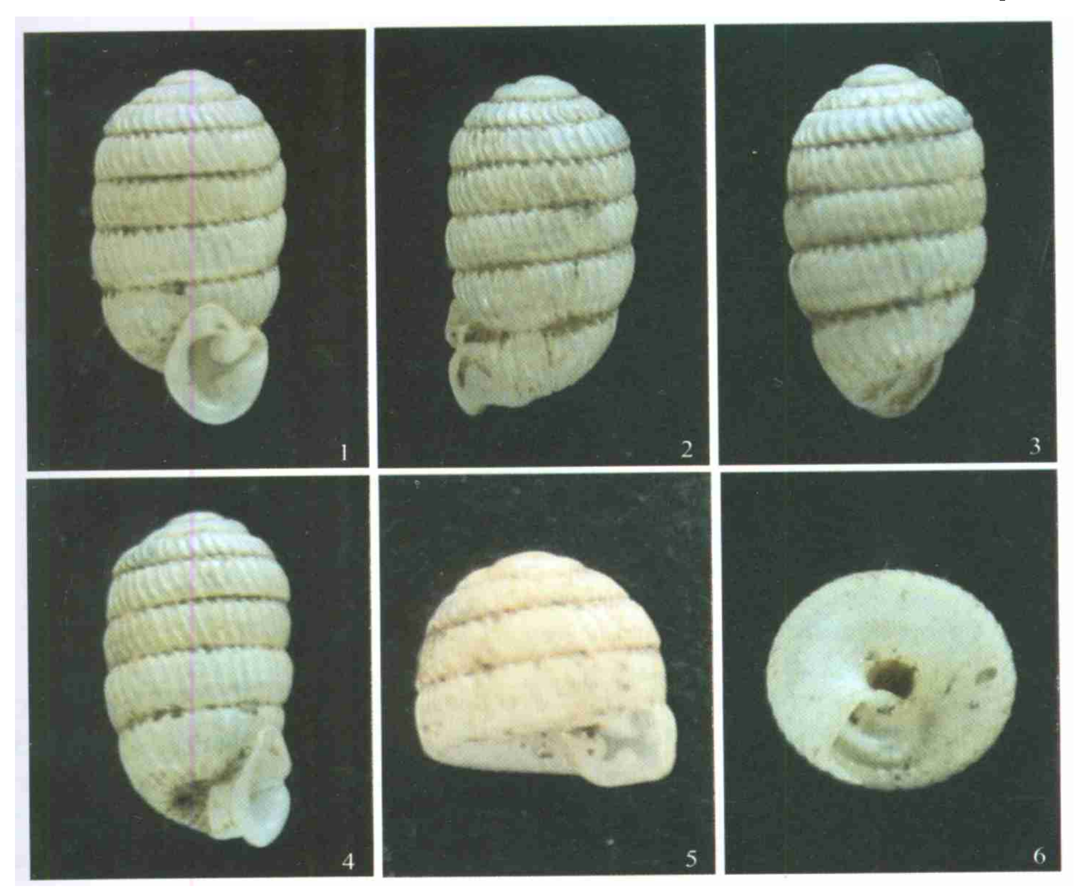


图 1～6 福州弯螺, 新种 *Sinoennea fuzhouensis* sp. nov.
1. 贝壳侧面观 (lateral view of shell) 2. 贝壳右侧面观 (right lateral view of shell) 3. 贝壳背侧面观 (dorsal lateral view of shell) 4. 贝壳左侧面观 (left lateral view of shell) 5. 幼体贝壳右侧面观 (right lateral view of young shell) 6. 幼体贝壳腹面观 (ventral lateral view of young shell)

收稿日期: 2006-01-18, 修订日期: 2006-02-12.

标本均保存于中国科学院动物研究所。

福州弯螺，新种 Sinoennea fuzhouensis sp. nov.（图 1～6）

正模 壳高 5.17 mm，壳宽 2.57 mm，壳口高 1.86 mm，壳口宽 1.48 mm，福建省福州市森林公园，2005-08-25。

副模 36 个，其中有 8 个幼螺。壳高 4.43～5.21 mm，壳宽 2.43～2.58 mm；壳口高 1.71～2.00 mm，壳口宽 1.43～1.54 mm，标本采自福建省福州市森林公园，2005-08-25。

形态特征 贝壳小型，壳质厚，结实，光滑，有光泽，呈圆柱形，有 7 $\frac{1}{2}$ 螺层，各螺层均匀增长，膨大，螺旋部高，呈圆柱状，壳面为淡黄色或黄褐色，并有无数弧形纵行排列的螺肋，但胚螺层和第 2 螺层光滑，无螺肋。壳顶低平，缝合线深。体螺层不膨大，靠近壳口处逐渐变窄，缩小。壳口狭小，近耳形，口缘厚，外折，扩大而延长，呈喇叭状，内唇贴覆于体螺层上，形成较厚的胼胝部。壳轴笔直，在内唇上有一枚较大片状角板，在右侧口缘上有 2 枚乳头状齿：上方有 1 枚较粗壮，下方有 1 枚较小。轴缘不遮盖脐孔，脐孔大而深，呈洞穴状。

栖息环境 一般生活在阴暗潮湿多腐殖质的石灰岩山区和丘陵地带喀斯特的地貌环境，常栖息于石灰岩多苔藓、地衣的石壁上或石缝中。

新种与幼虫弯螺 Sinoenna larvula (Heude, 1882) 在外部形态上相似，但后者较细长（壳高 3.5 mm，壳宽 1.00 mm），壳口右口缘上具 1 枚疣状小齿，故有所区别。

REFERENCES (参考文献)

Gredler, V. 1881. Zur Conchylienfauna von China Ⅲ, Nachr. Bl., p. 118, pl. 6, f. 4.

Gredler, V. 1885. Zur Conchylienfauna von China Ⅶ, Nachr. Bl., p. 223.

Heude, P. M. 1882. Notes sur les mollusques terrestres de la vallee du Fleuve Bleu., Mem. d'Hist. nat. l'Emp. Chinois., p. 75, pl. 18, f. 23.

Luo, T-C and Chen, D-N 1998. Studies on Sinoennea Kobelt from China. Guizhou Sci., 16 (2): 90-93.

Luo, T-C, Zhou, W-C and Chen, D-N 2004. A new species of the Sinoennea Kobelt from China (Pulmonata, Styommatophora, Streptaxidae). Acta Zootaxonomica Sinica, 29 (1): 77-79. [罗泰昌，周卫川，陈德牛 2004. 中国弯螺属一新种. 动物分类学报, 29 (1): 77～79]

Moellendorff, O. V. 1881. Beitrage zur Molluskenfauna von Suedchina. Jahrb., 311.

Moellendorff, O. V. 1882. Diagnoses specierum novarum chinae meridionalis. Jahrb., 183.

Moellendorff, O. V. 1885. Materialien zur Fauna von China., Die Auriculaceen. Jahrb., 376.

Moellendorff, O. V. 1887. Ueber die Ennea-Arten China's. Jahrb., 28.

Thiele, J. 1931. Handbuch der Systematischen Weichtierkunde., Zool. Jahrb. Syst., I: 1 149-1 151.

Yen, T. C. 1939. Die Chinesischen land und Suesswasser-Gastropoden des Natur-Museums Senckenberg., Abh. Sencken. Nat. Ges., 444: 160-162, pl. 16, f. 36-43.

A NEW SPECIES OF THE SINOENNEA KOBELT FROM FUJIAN, CHINA (PULMONATA, STYOMMATOPHORA, STREPTAXIDAE)

ZHOU Wei-Chuan[1], CHEN De-Niu[2], GUO Yun-Hai[3]

1. Fujian Entry-Exit Inspection & Quarantine Bureau, Fuzhou 350001, China

2. Institute of Zoology, Chinese Academy of Science, Beijing 100080, China

3. College of Geographical and Biological Science, Guizhou Normal University, Guiyang 550001, China

Abstract The genus Sinoennea Kobelt belongs to the family Streptaxidae. Its distribution range was limited in East Asia and South Asia. The present paper deals with a new species of genus Sinoennea Kobelt from China: Sinoennea fuzhouensis sp. nov. The materials were collected by the authors in Forest Park, Fuzhou City, Fujian Province, China in 2005. Type specimens are deposited in the Institute of Zoology, Chinese Academy of Sciences, Beijing.

Sinoennea fuzhouensis sp. nov. (Figs. 1-6)

Holotype, alt. 5.17 mm, diam. 2.57 mm; alt. of aperture 1.86 mm, diam. of aperture 1.48 mm; collected from Forest Park, Fuzhou City, (26°0'N, 119°3'E), Fujian Province, China, 25 Aug. 2005.

Paratypes, 36 specimens, 8 young shells specimens, alt. 4.43-5.21 mm diam. 2.43-2.58 mm; alt. of aperture 1.71-2.00 mm, diam. of aperture. 1.43-1.54 mm, collected from Forest Park, Fuzhou City, Fujian Province, China, 25 Aug. 2005.

Shell small, thick, solid, smooth, lustrous, cylindrical. Whorls 7 $\frac{1}{2}$, moderately convex with high spiral part. Shells light yellow or yellow-brownish in colour, and with some curve vertically rib-stria, but the embryonic and second without rib-stria, smooth.

Apex blunt and short, ovate, with deep suture. Aperture small, ear-shaped. The peristome thick, expanded and reflexed, with 1 big flake-form angular lamellae at inner lip, with two nipple-formed teeth in right lip: 1 big strong tooth in upper right lip, 1 smaller papillary tooth in below right lip. The columellar lip and outer lip perfectly straight. Umbilicus wide, deep, cavernous.

The new species fairly resembles Sinoennea larvula (Heude, 1882), but differs from the latter by the shells with $7\frac{1}{2}$ whorls, (alt. 5.17 mm, diam. 2.57 mm; alt of aperture 1.86 mm, diam. of aperture 1.48 mm) in the big size, with 1 big flake-form angular lamellae at inner lip, with two teeth in right lip; 1 big strong nipple-formed tooth in upper right lip, 1 smaller papillary tooth in below right lip. The latter shell big (alt. 3.5 mm, diam. 1.0 mm) and with one small wart-form tooth in right lip.

Key words Pulmonata, Styommatophora, Streptaxidae, Sinoennea, new species.